"Upon stripping the shoulder the very remarkable symptoms of dislocation backwards were at once readily perceived. In place of the natural rounded prominence in front, there was a deep depression or pit, into which the finger could be pressed; there was flattening of the shoulder on the outer side, below the acromion, and a large rounded prominence was felt at the back of the scapula, below the spine. This prominence was subcutaneous, and was easily ascertained to be the head of the bone, upon rotation of the arm. The elbow projected forwards and a little out from the side; the axis of the limb ran from the prominence above mentioned downwards and forwards; the length of the limb, from the tip of the acromion to the point of the elbow, was not altered. The patient was either unable or unwilling to attempt motion of any kind, and when desired to do so she moved the scapula on the trunk. We were, however, able to rotate the arm freely, to approximate it to the side, and to bring it forward. We could not raise it or bring it in a backward direction without rotation of the scapula. In our manipulations we experienced no difficulty from the occurrence of tumefaction or effusion, owing to the recent nature of the accident, nor did the patient complain of much pain. The dislocation was readily reduced. Mr. George Porter made extension by raising the arm to a right angle with the body, and drawing it outwards and slightly forwards, at the same time rotating it. I fixed the scapula with the palms of my hands, and made pressure on the displaced head of the bone; with very slight effort the bone returned to its natural place, and the symptoms of dislocation disappeared. The patient recovered the use of her arm at once, and did not return

to the hospital.

"All surgical authorities are agreed upon the extreme rarity of this form of

"Boyer attributes this dislocation-not more than eight or ten being on record. Boyer attributes this rarity to the fact that muscular action has no part in bringing about this dislocation. According to him the accident occurs by a fall on the side with the arm extended and advanced; and it will require a very considerable force to be applied to the elbow before the bone can be thrust outwards or backwards; it is manifest, however, even when the accident occurs in the manner described by Boyer, that the action of the muscles, which attach the scapula to the trunk, largely assist in producing the dislocation. By these muscles the scapula is fixed, while at the same moment the humerus is converted into a powerful lever of the first order. Its centre rests on the side of the chest, the violence is applied at the cllow, and it is only when this violence is sufficient to rupture the capsule, and overcome the action of the muscles about the capsule, that dislocation can occur. The muscles which fix the scapula assist in causing the accident, for if the glonoid cavity were not fixed by them, the violence applied to the elbow would cause it to follow the head of the bone in its movements, and render dislocation impossible. The possibility of dislocation by a direct blow on the front of the shoulder does not appear to have struck Boyer, nor do I well know how to account for its producing dislocation in the present instance, unless by supposing that the glenoid cavity was altered by age and rheumatic disease. It is well known, these causes are sufficient to flatten the cavity, and give it a greater breadth in the backward direction. In the London Medical Gazetto for 1833 a somewhat parallel case will be found, in which an old woman. falling on the front of the joint, dislocated it backwards. From the feel of the joint, when reduced, both Mr. Porter and I were of opinion that the dislocation would be easily reproduced; the patient, however, never returned to the hospital, and we are ignorant of her subsequent history. I have thought it right to put the case on record, as the accident is rare; but I regret that I am not able to throw more light upon what may be called the mechanism of its occur-

28. Treatment of Fractures by the Starched Apparatus.—Benjamin Hunt has published, in the Association Medical Journal, reports of thirty cases of fracture. taken indiscriminately from amongst many others treated in like manner at the Queen's Hospital, Birmingham. We present a tabular view of these cases, with the remarks of the author:—

Cumo.	Name.	Age.	Fracture.	Date of accident.	Treatment commenced from time of accident.	Length of treat- ment.	Confine- nient to bed un- der treat- ment.	Result, etc.
-		12	External and luter-	Feb. 28, 1853	Mar. 4, 1853	3 weeks	2 days	Cured.
	Greenway	53	nal malicoli Compound commi- nuted of tibla and	Ap'i 18, 1854	Immediately	6 weeks and 3d'ys	3 days	Cured.
		51	fibula Oblique of the femur	Jan. 10, 1854	7 hours	3 weeks	3 days	Cured.
13		0.4	Oplique of the lenter	1851	Immediately		i days	
14	Abel Cann	11	Transverse femur	Ap'l 13, 1854	Do.		2 days	Cured.
	Tudor	35	Pott's fracture	APT 10, 1001		6 weeks	3 days	Cured.
12	McCarthy	19	Femur at lower third	Aug. 24, 1000		6 weeks	1 month	Cured. Short-
1	Coyle	56	Femur near neck	Nov. 2, 1855	1 50.	10		ened half an
1	1	1			1			Amputation.
1		26	Compound of femur	Oct. 8, 185	Do.	2 months	•••	Recovery.
13	Wilkinson	20	Cempound of feature	0		i	l	Recovery.
1	1	L	1	Oct. 3, 185	Do.	6 weeks	1 week	Cured.
١٠	9 K. M.	77	Femur	Feb. 21, 185		3 weeks		Cured.
-16	o M. A. Girling	7	Do.	ren. 21, 100	'l 2"	and 5 d'y		1 1
ľ	1	1	1		Do.	1 month	1	Cured.
١.,	1 Parsonage	13	Do.	Jan. 20, 185		7 weeks	1	Cured.
- 13	LiLatantiago	C	Do.	Aug. 6, 185	Do.	3 week		Cured.
ր	2 Tyerbuck	l à	Do.	Ap 1 27, 185	Do.			learen.
ĮZ	3 E. Wilson	ļ۳	Do.		1	and 2 d'y		Cured.
١.	I.S. A. Field	15	Do.	May 5, 185	1 Do.	3 week		cureu.
11	I,S. A. Ficiu	Į۳	25.	-	1	and 5 d'y	2 davs	Cured.
1		144	Tibia and fibula	Dec. 27, 185	3 10 hours	6 weeks		Cured.
l)	5 G. W.			Dec. 25, 185	3 Immediatel	y 3 wecks	2 days	
- lı	6 H. Robins	31		Ap'l 17, 185	3 Do.	8 weeks	1 week	Cured.
	7 Bell	59		Aug. 13, 18		1 month	1 day	Cured.
- li	8.G. Clarke	14		Aug. 10, 100		3 weeks	Lday	Cured.
	9.T. Dale	117	Do.	Sept. 30, 185		0 weeks	2 days	Cured.
- 1	3) Mrs. S.	150	Do.	Mar. 14, 18		8 weeks	2 days	Cured, Union
ŀ	21 T. W.	111	Patella	Mar. 30, 18	170.	o weeks	1- 00,0	ligamentous.
ŀ	41, 11, 11,	1			1	3 weeks	3 days	Cured.
-1	N . W	31	Fibula	Oct. 10, 18	3 24 nours	PO WECKB	l day	Cured.
1	22 J. W.	130		Jan. 9, 18.	54 Immediate	D'a weeks	days	Cured.
- 1	3 Sherriff	130		Dec. 29, 18				Cured.
- 1	24 E. Pattison				Do.	3 wecks		Cured.
- 1	23 G. Hunt	35		May 1, 18	1 Do.	2 weeks	2 days	
	26 B. P.	51		Aug. 4, 18	53l Do.	3 weeks		Cured.
- 1	27 N. P.	56	3 Fibula	us Jan. 25, 18		1 month	None	Cured.
- 1	28 Allsopp	145		(1) ABH. 20, 10	~ ~~		1	I .
		- 1	and ulna	1	54 Do.	3 weeks	Yone	Cured.
- 1	29 T. D	143	5 Olecranon	May 17, 18		3 month		Cured. Nine
	30 H. R.	12		ia Jan. 7,18	53;2 monins	o moner	"  - 30,0	teen pleces o
- 1	ov 11. 16.	- 1-	and fibula	i		1		bone came
	1 1		u	1	1	1	1	away.
	11	- 1	1	ı	1	i i	1	4.0).
	1 1	- 1	ı	1	ì	1		

Remarks.—In the above table, it will be seen that the ages vary from early childhood to extreme old age; from which it may be inferred that the method is adapted for any age; indeed, I have applied the apparatus, in treating a broken thigh, to a child aged sixteen months, and for the same injury to a women alaye highly years.

Under the head of "Fracture" in the table, it will be seen that the femur was the seat of injury in eleven cases; the tibia and fibula together, in eight; the fibula only, in four; the malleoli, either singly or together, in four; the patella, in one; the elecranon, in one; and the radius and ulna, in one. The benes of the lower extremities sustained the injury in every case but two, which may be accounted for from my not taking notes of cases which did not require admission into the hospitial; and fractures occurring to the bones of the upper extremity generally do not; yet I have employed the apparatus in treating fracture of the arm and forcarm as often as of the leg and thigh, and can as strongly recommend it in the one as the other.

strongly recommend it in the one as the other.

It will be observed that, in the majority of cases, the treatment was commenced immediately after the receipt of injury, which may be called the time of election; neither inflammation nor swelling have supervened, and rarely, if ever, take place after the apparatus has been applied. When, however, several hours or oven days have clapsed since the accident, and the limb, in the absence of treatment, shall have become swellen and inflamed, the application of the apparatus is usually followed by the subsidence of both these conditions.

The length of treatment in the above cases does not indicate the period of perfect union in every instance; the apparatus being worn beyond that time, for the more complete consolidation of the fragments. Judging, however, from these and other cases similarly treated, union of the broken bone takes place in the following order; namely, the fonur, in six weeks; the tibin and fibula, in four; the fibula or tibia only, in two to three; the malleoli, in about the same time; the humerus, in four; and the bones of the forearm, either singly or together, in about three. These remarks refer to solution of continuity of the bone in the adult healthy subject; in childhood, the fragments unite much sooner; while old age, pregnancy, mercurialism, and cachectic states of the system, impede if not altogether suspend union.

Confinement to bed is perhaps the most irksome condition required of the patient under treatment for fracture of a bone of the lower extremity, not to mention the impairment of health it induces. Reference to the above table proves that this may be limited to two or three days, excepting while the fracture is complicated with injury to other parts of the body; and even then the

patient may, in most cases, be placed upon a couch during the day.

The results are almost uniformly successful, the bones having united without shortening, and without deformity, in all the cases but three. Of these, one was a very severe compound fracture of the thigh, occurring to a man of weak constitution, which terminated in amputation of the limb; another was fracture of the femur close to the trochanter, and accompanied with severe contusions of the whole side of the body, in which case a cure was effected with half an inch of shortening; in the third and last, the injury, a compound fracture of the leg, had existed ten weeks before the apparatus was applied, and by this time necrosis of the bone had taken place, and the limb was greatly deformed; the modern method was only adopted, therefore, to save the limb, and in this its succeeded.

In concluding these remarks, I may observe that every case of fracture which required mechanical aid during the time I was Resident Surgeon at the Queen's Hospital, a period of one year and nine months, was treated by the modern method here recommended, and with equally good results. I must not, therefore omit to express my acknowledgments to the surgeons of that institution, Mr. Sands Cox, Mr. G. B. Knowles, and Mr. Langston Parker, for having permitted me to make such an extended trial of this plan.

29. Injury of the Perinaum; Rupture of the Urethra with extravasation of Urine. Mr. J. S. Fletcher records (Association Medical Journal, Sept. 21, 1855) a highly interesting case of this accident, which presents some very unusual features. We transfer it to our pages, with the instructive practical remarks of the author.

"On the 27th December, 1852, I was called to Mr. Smith, aged 29 years, of nervous and bilious temperament. On returning from a committee meeting a short time previously, he had gone into his own yard to mieturate, when passing over a trap-door, having one foot on the door, and the other on the flag on which it rested, it gave way, and let him down, falling with his perincum on the edge of the hard flag. I saw him in fifteen minutes after the accident. He had then passed a large quantity of blood and urine, and was still bleeding very freely from the urethra; he was faint on standing, and had some pain in the perincum, but no swelling, and but little tenderness, without any desire to pass urine. I made an attempt very gently to pass the eatheter, but could not succeed, as it was obstructed near the prostate. I withdrew it, and ordered tepid fomentations, with an opiate; and saw him again in about two hours. The bladder was now much distonded, causing considerable pain, and strong desire to pass urine. He had no swelling in the perincum. I again tried to pass the eatheter, and succeeded, by using a large instrument with the utnest gentleness, keeping it in the median line, and against the upper wall of the urethra. I could distinctly feel, however, that it passed through a long track of apparently torn passage. The bleeding had continued very free. I drew away twelve ounces of normal urine, unmixed with blood. The patient was